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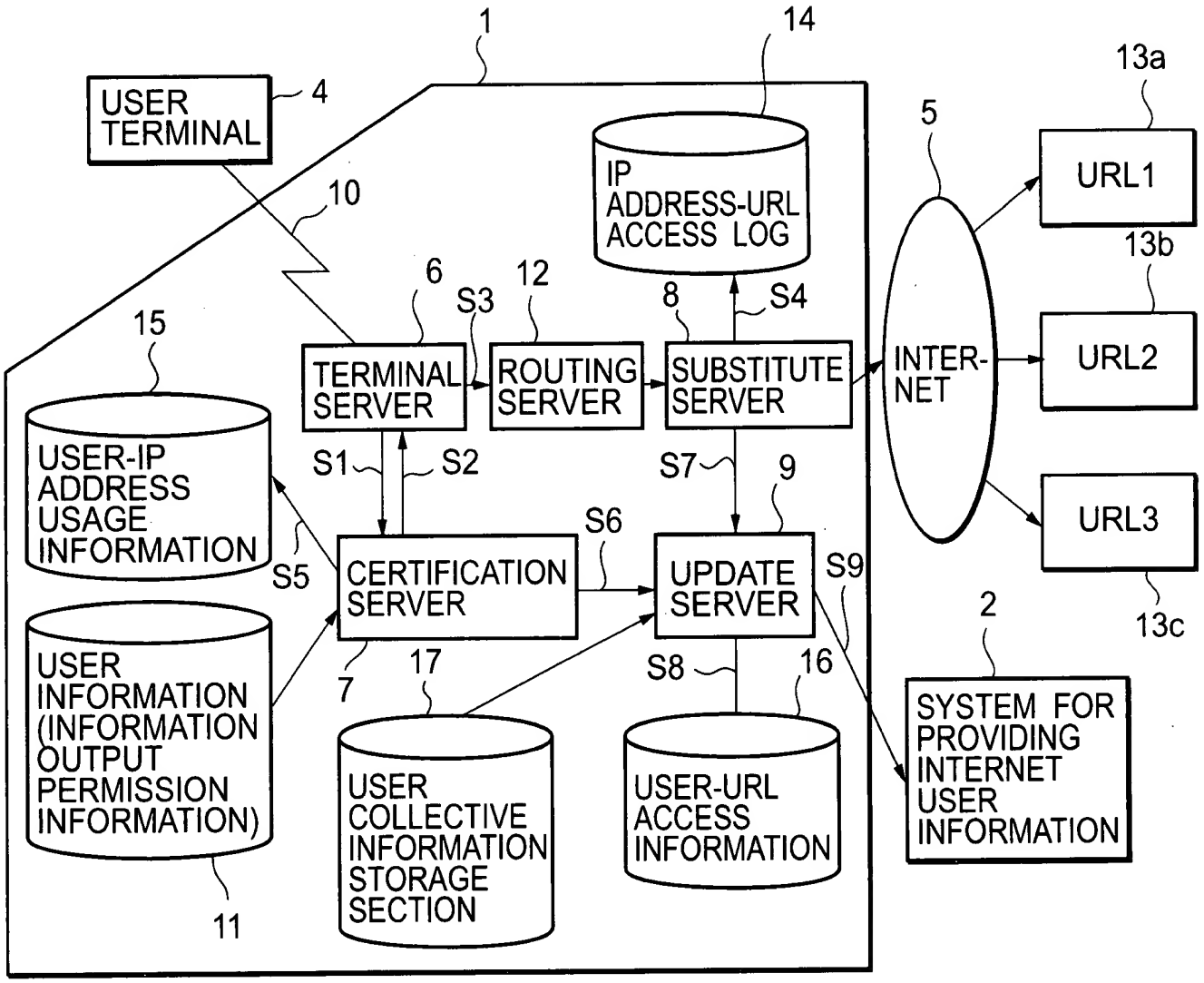

FIG.1

USER INFORMATION

MEMBER ID	PASSWORD	USER ATTRIBUTES	INFORMATION OUTPUT PERMISSION
A	1111	NAME,ADDRESS,SEX, OCCUPATION,ETC.	YES
B	2222	...	NO
⋮	⋮	⋮	⋮

FIG.2

09/935222 - 121200

USER-IP ADDRESS USAGE INFORMATION

PORT	MEMBER ID	IP ADDRESS	CONNECTION START TIME	CONNECTION END TIME
1	A	X.X.X.10	09:04	—
⋮	⋮	⋮	⋮	⋮

FIG.3A

USER-IP ADDRESS USAGE INFORMATION

PORT	MEMBER ID	IP ADDRESS	CONNECTION START TIME	CONNECTION END TIME
1	A	X.X.X.10	09:04	09:04
⋮	⋮	⋮	⋮	⋮
4	B	X.X.X.10	09:23	—
⋮	⋮	⋮	⋮	⋮

FIG.3B

IP ADDRESS-URL ACCESS INFORMATION

IP ADDRESS	URL ACCESSED	CONNECTION REQUEST TIME
x.x.x.10	www URL com (URL 1)	09 : 05
x.x.x.10	www URL2 com (URL 2)	09 : 5
x.x.x.10	www URL3 com (URL 3)	09 : 7
x.x.x.10	www URL4 com (URL4)	09 : 25
⋮	⋮	⋮

FIG.4

USER-URL ACCESS INFORMATION

MEMBER ID	URL ACCESSED
A	URL 1
A	URL 2
A	URL 3
B	URL 4
⋮	⋮

FIG.5

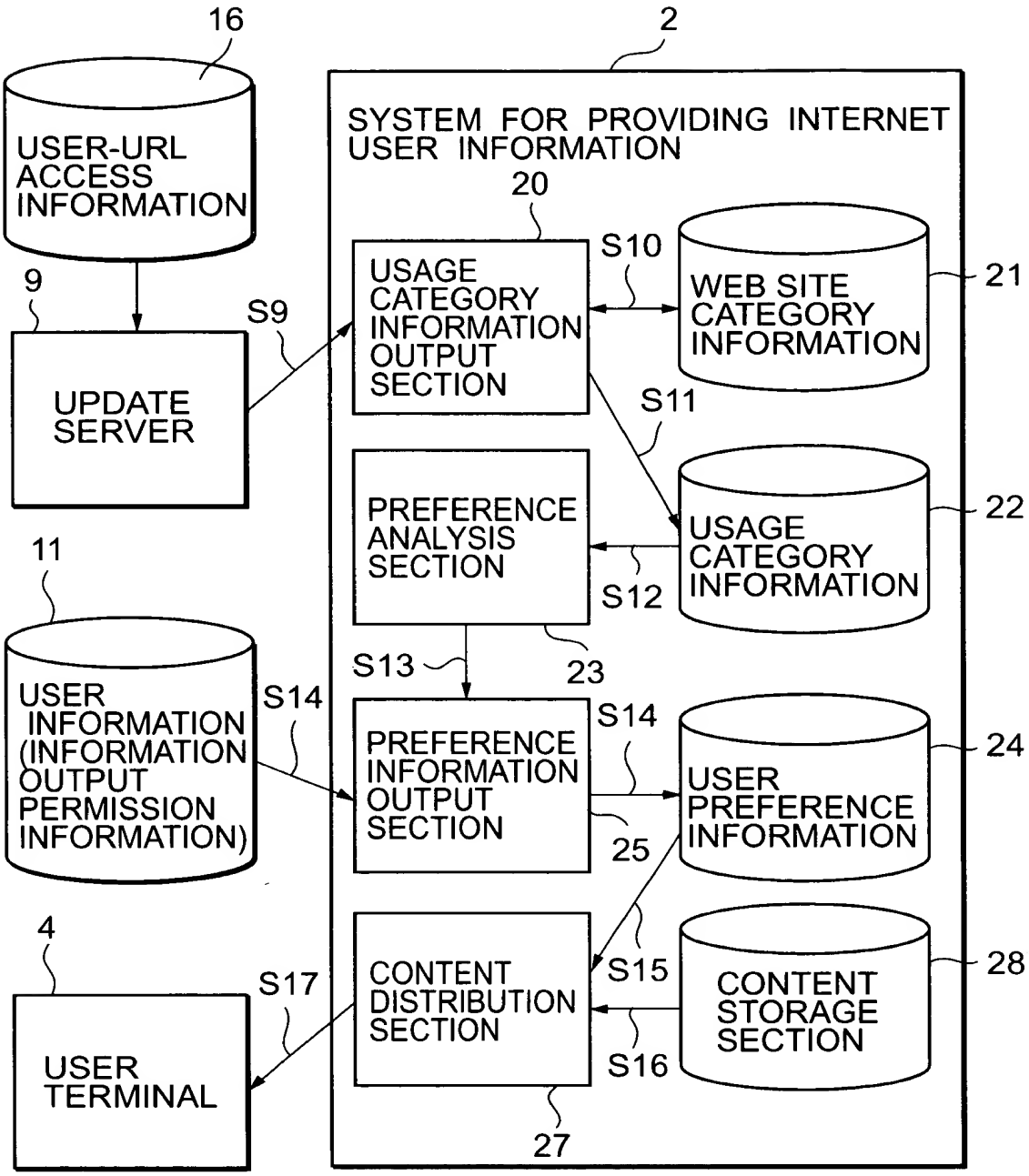
16
USER-URL ACCESS INFORMATION
9
UPDATE SERVER
S9
2
SYSTEM FOR PROVIDING INTERNET USER INFORMATION
20
USAGE CATEGORY INFORMATION OUTPUT SECTION
S10
WEB SITE CATEGORY INFORMATION
21
S11
PREFERENCE ANALYSIS SECTION
S12
USAGE CATEGORY INFORMATION
22
11
USER INFORMATION (INFORMATION OUTPUT PERMISSION INFORMATION)
S14
S13
23
PREFERENCE INFORMATION OUTPUT SECTION
S14
USER PREFERENCE INFORMATION
24
25
4
USER TERMINAL
S17
CONTENT DISTRIBUTION SECTION
S15
S16
CONTENT STORAGE SECTION
28
27

FIG.6

URL CATEGORY INFORMATION

URL	CATEGORY	SUB-CATEGORY
URL 1	ART	PHOTOGRAPHS
URL 2	BUSINESS	EMPLOYMENT
URL 3	POLITICS	PUBLIC ADMINISTRATION
URL 4	SPORTS	OUTDOOR
⋮	⋮	⋮

FIG.7

RESULTS OF THE USER PREFERENCE ANALYSIS

CATEGORY / MEMBER ID	ART	BUSINESS	COMPUTER	EDUCATION	...
A	5	2	0	0	...
B	0	0	5	4	...
⋮	⋮	⋮	⋮	⋮	

FIG.8

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CONTENT INFORMATION

CONTENT ID	CATEGORY	SUB-CATEGORY	AGE	SEX	OCCUPATION CODE
0001	ART	PHOTOGRAPHY	20 - 40	M	1
⋮	⋮	⋮	⋮	⋮	⋮
0012	EDUCATION	SCHOOLS	12 - 15	F	0
⋮	⋮	⋮	⋮	⋮	⋮

FIG.9

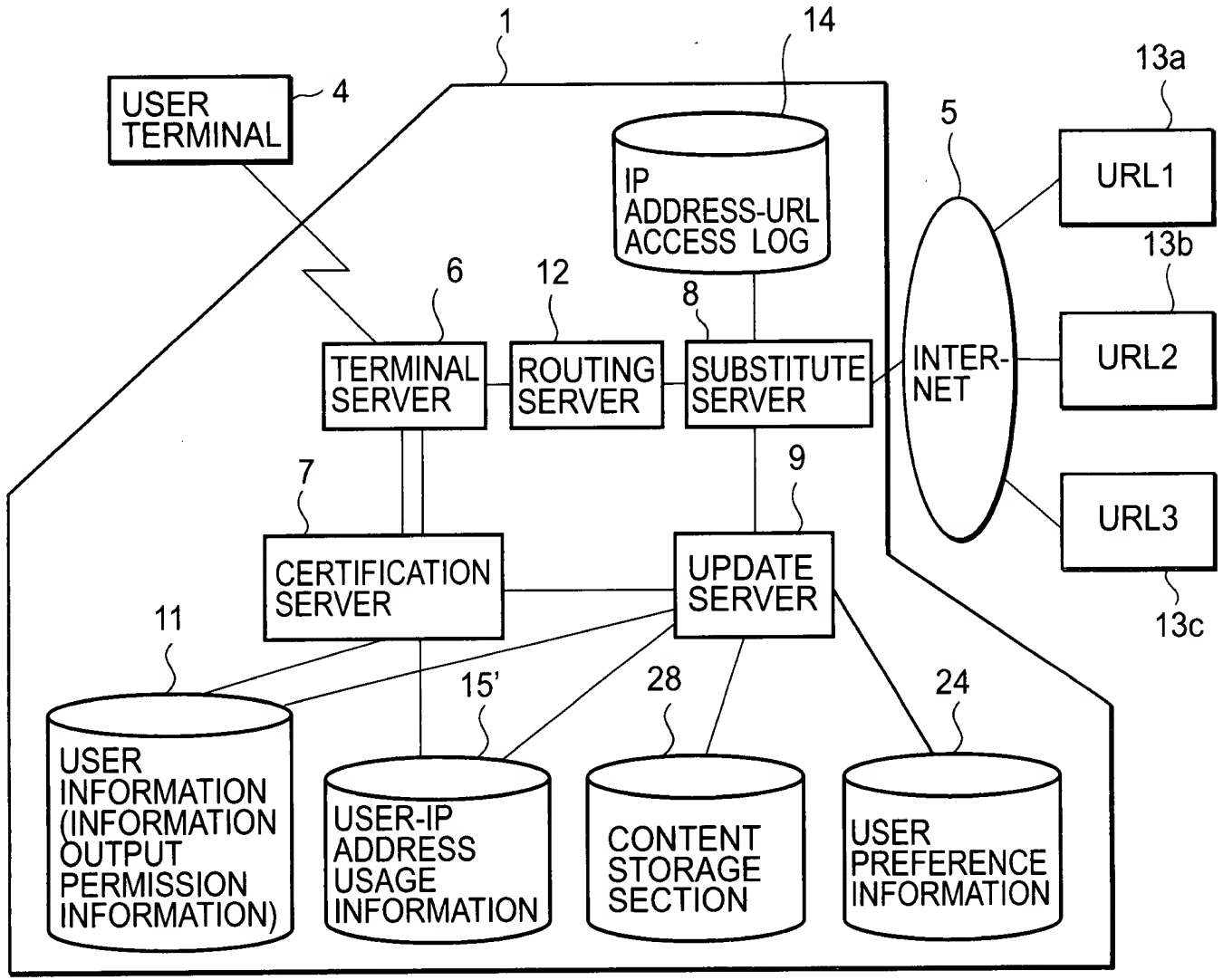
1
14
13a
USER TERMINAL
4
5
URL1
IP ADDRESS-URL ACCESS LOG
13b
6
12
8
TERMINAL SERVER
ROUTING SERVER
SUBSTITUTE SERVER
INTER-NET
URL2
7
9
URL3
CERTIFICATION SERVER
UPDATE SERVER
13c
11
15'
28
24
USER INFORMATION (INFORMATION OUTPUT PERMISSION INFORMATION)
USER-IP ADDRESS USAGE INFORMATION
CONTENT STORAGE SECTION
USER PREFERENCE INFORMATION

FIG.10

USER-IP ADDRESS USAGE INFORMATION

IP	MEMBER ID
xxx 10	A
⋮	⋮

FIG.11

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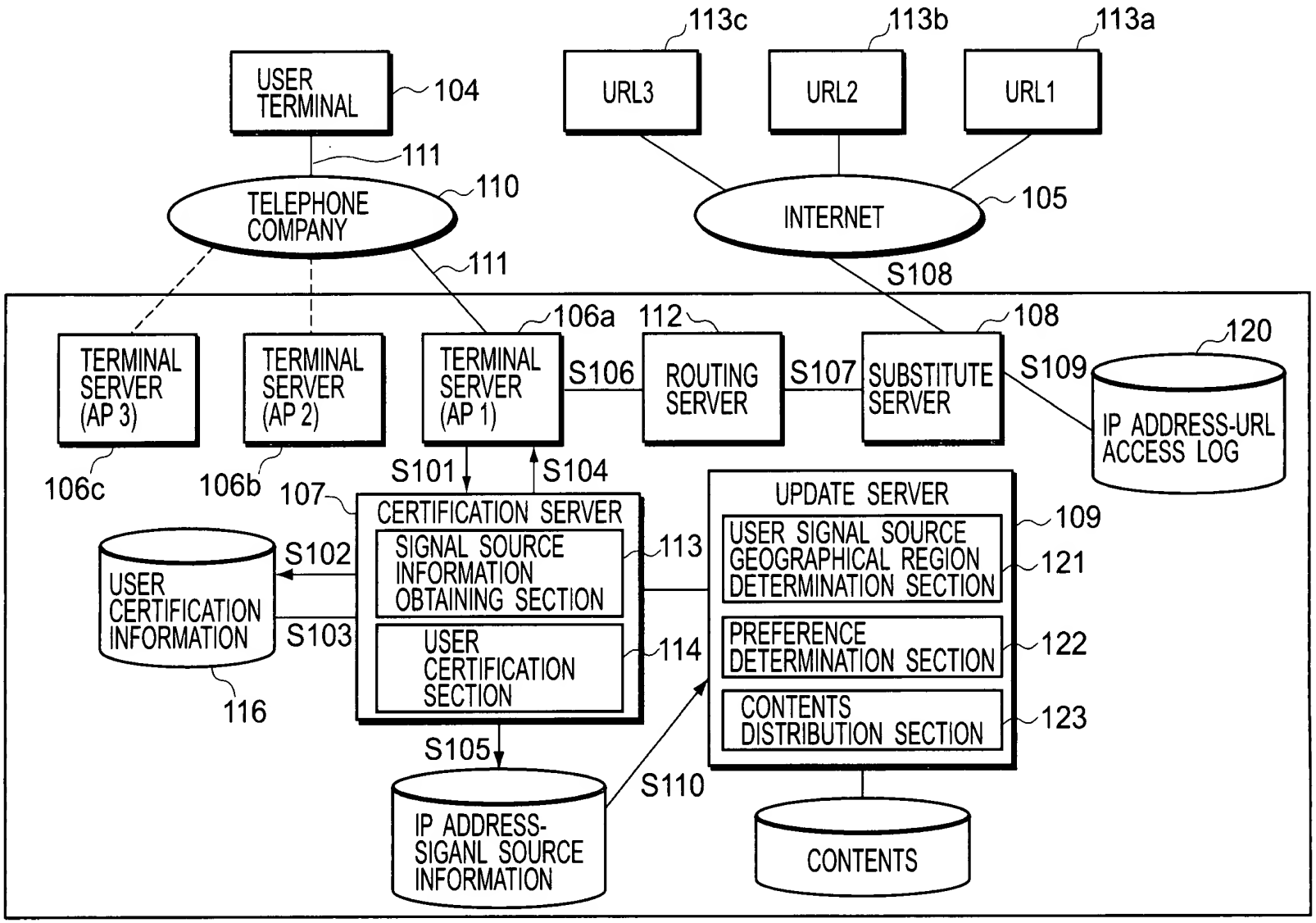

FIG. 12

09/352,212 - 12/12/00

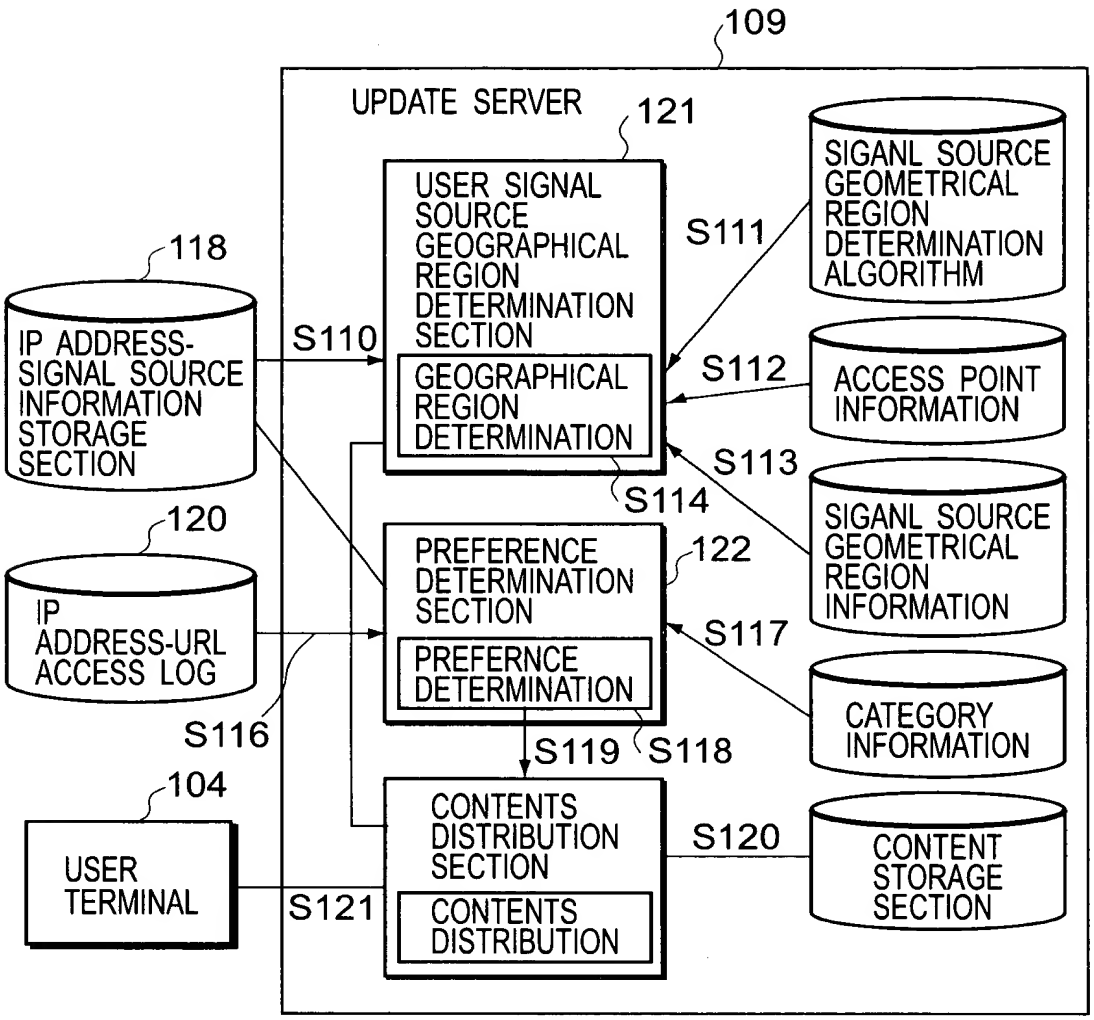

FIG. 13

09/24/2004, EAST Version: 2.0.1.4

ACCESS POINT INFORMATION

ACCESS POINT NAME	TELEPHONE NUMBER	LOCATION
AP1	03-111-1111	03 (TOKYO)
AP2	045-222-2222	045 (YOKOHAMA)
AP3	0120-3333-333	078 (KOBE)
. . .	. . . .	. . . .

FIG. 14

IP ADDRESS USAGE INFORMATION

USER	USER ID	IP ADDRESS	SIGANL SOURCE
A	1111	(IP 1)	045-222-2222
B	2222	(IP 2)	PUBLIC TELEPHONE
C	3333	(IP 3)	03-111-1111
. . .	. . . .	. . . .	. . . .

FIG. 15

SIGANL SOURCE GEOMETRICAL REGION DETERMINATION ALGORITHM

LINE NETWORK TYPE	ALGORITHM
REGULAR TELEPHONE	DETERMINE BASED ON THE SIGNAL SOURCE AREA CODE
PUBLIC TELEPHONE	DETERMINE BASED ON THE ACCESS POINT AREA CODE
. . .	. . . .

FIG. 16

SIGANL SOURCE GEOMETRICAL REGION INFORMATION

SIGNAL SOURCE OR ACCESS POINT AREA CODE AND EXCHANGE NUMBER	GEOMETRICAL REGION
045-222	YOKOHAMA-1
03-111	TOKYO-1
. . .	. . . .

FIG. 17

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09/752,960

URL	CATEGORY
URL 1	CATEGORY 1 (CARS)
URL 2	CATEGORY 2 (TRAVEL)
URL 3	CATEGORY 3 (SECURITIES)

FIG. 18

09/952,202 - 12/12/08

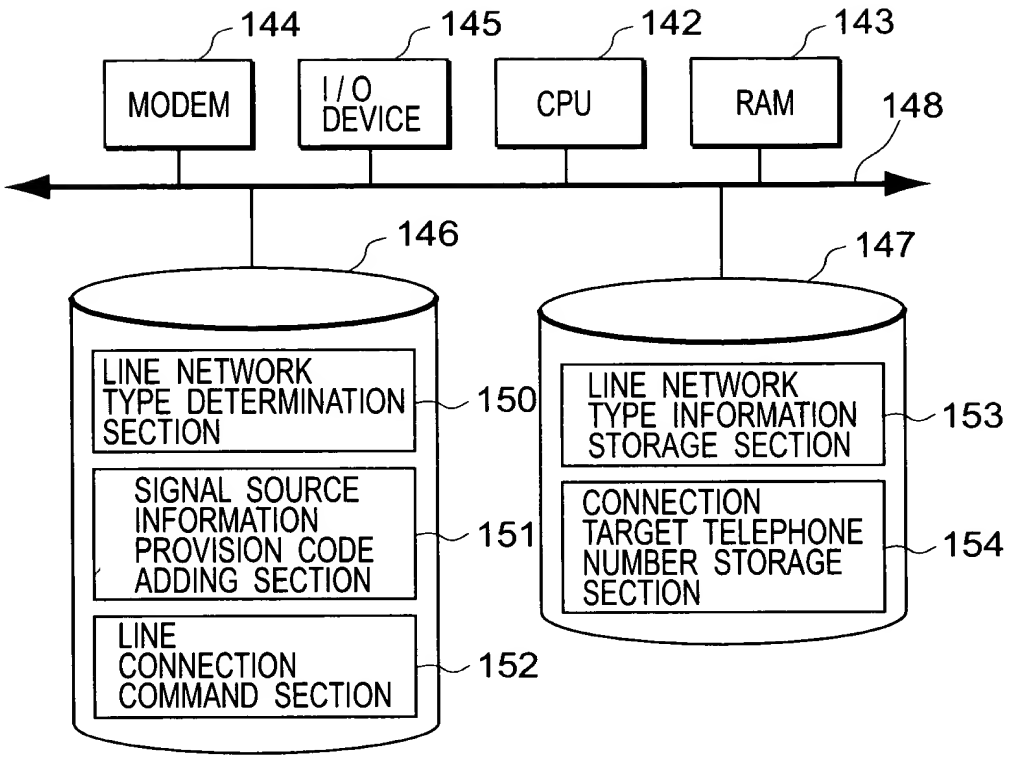

FIG. 19

09/352,200

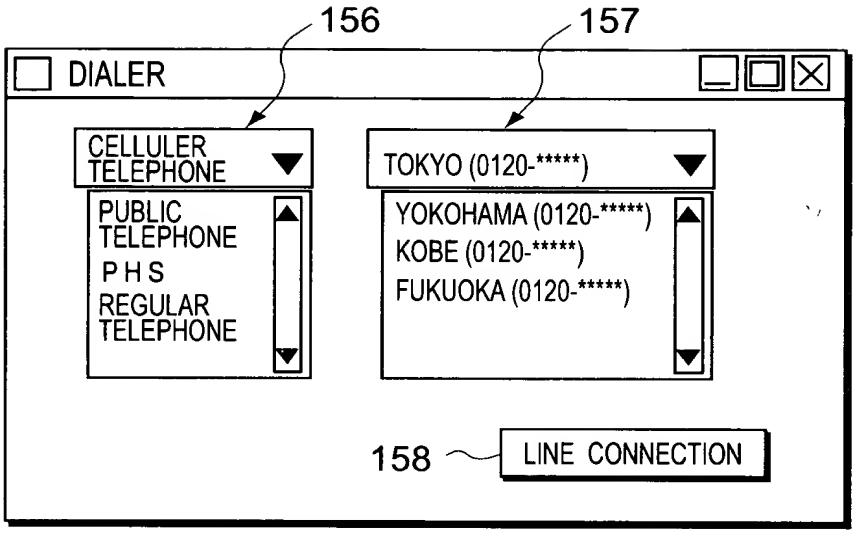

FIG. 20